

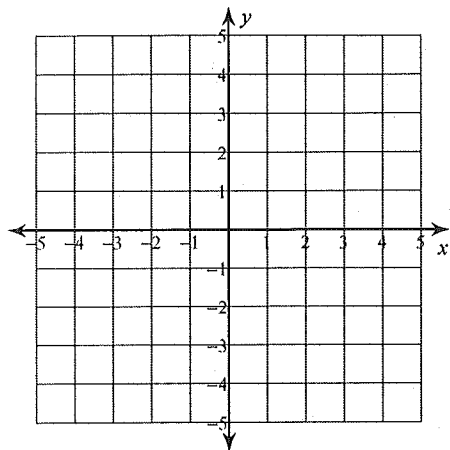
Solving Systems of Inequalities

Date _____ Period _____

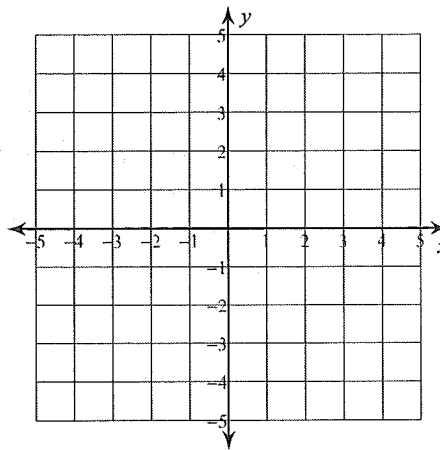
Sketch the solution to each system of inequalities.

Assume $x, y \in \mathbb{R}$ unless told otherwise

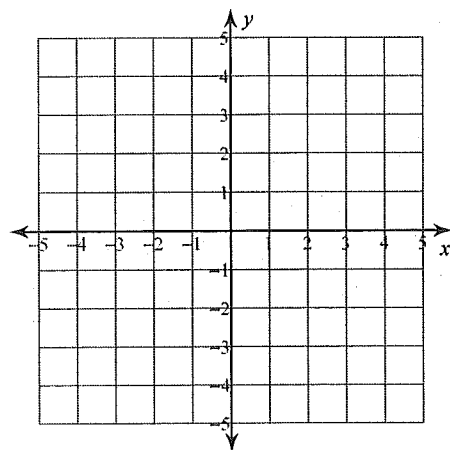
1) $y \leq -x - 2$
 $y \geq -5x + 2$



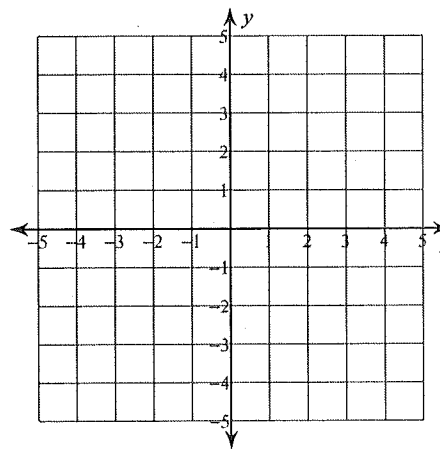
2) $y > -x - 2$
 $y < -5x + 2$



3) $y \leq \frac{1}{2}x + 2$
 $y < -2x - 3$

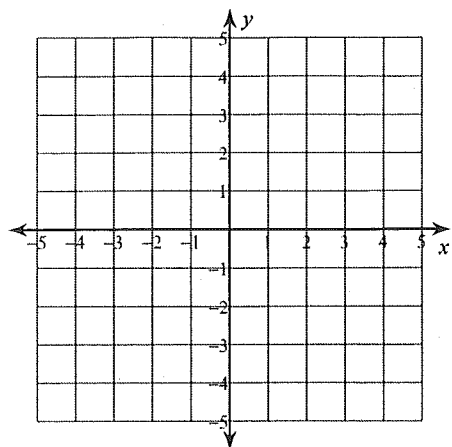
 $x, y \in \mathbb{I}$ 

4) $x \leq -3$
 $y < \frac{5}{3}x + 2$



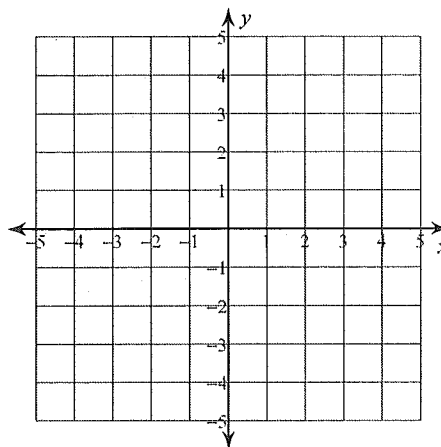
$$5) y \leq -\frac{5}{2}x - 2$$

$$y < -\frac{1}{2}x + 2$$



$$6) y \geq \frac{2}{3}x + 3$$

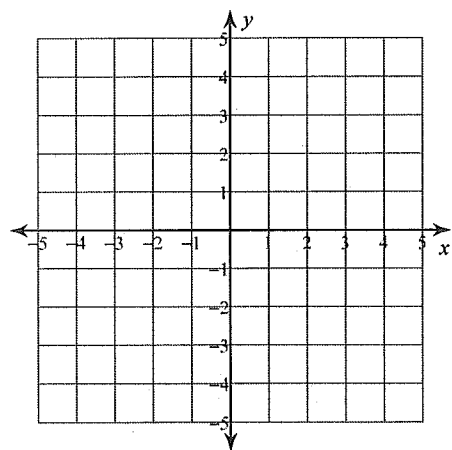
$$y > -\frac{4}{3}x - 3$$



$$7) 4x + y < 2$$

$$y > -2$$

$x, y \in \mathbb{I}$



$$8) 3x + 2y \geq -2$$

$$x + 2y \leq 2$$

